

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
UKRAINIAN STATE UNIVERSITY OF RAILWAY TRANSPORT

APPROVED

Minutes of the meeting of the Academic Council of  
Ukrainian State University of Railway Transport

June, 28 2024 № 6

To be implemented from the 2024/2025 academic year

Rector



Sergii PANCHENKO

**EDUCATIONAL-PROFESSIONAL PROGRAM**  
Sustainable Logistics and Supply Chain Management

Higher Education Level:	second
Degree:	Master
Field of Study:	07 Management and Administration
Subject Area:	073 Management

## Preamble

The Law of Ukraine “On Higher Education” stipulates that:

1) an educational-professional program is a unified set of educational components (academic disciplines, individual tasks, practicums, assessments, etc.) aimed at achieving the learning outcomes specified by such a program, which entitles one to obtain a certain educational or educational and professional qualification(s);

2) The standard of higher education defines the following requirements for the educational program:

- the number of ECTS credits necessary to obtain the corresponding degree of higher education;
- requirements for applicants’ level of education and learning outcomes;
- a list of graduates’ mandatory competencies;
- the compulsory content of students’ training, formulated in terms of learning outcomes;
- forms of students’ attestation;
- requirements for the educational program development for training in a field of study, two fields of study, or a group of specialties (in standards for the level of junior bachelor), interdisciplinary educational-scientific programs (in master’s and doctor of philosophy standards);
- requirements of professional standards (if available);

3) an educational program should contain:

- a list of educational components and their logical sequence;
- requirements for the level of education of individuals who can start studying under this program;
- the number of ECTS credits necessary to complete this program, as well as the expected program learning outcomes (competencies) that the student should acquire;

4) Based on the corresponding educational program, a higher education institution develops a curriculum that determines the list and number of educational components in ECTS credits, their logical sequence, forms of organizing the educational process, types and duration of academic training, schedule of the educational process, forms of ongoing and summative assessments that ensure the achievement of the corresponding degree of higher education and program learning outcomes. Based on the curriculum, in the manner determined by the higher education institution, individual study plans for each academic year are developed and approved for each student.

The educational-professional program “Sustainable Logistics and Supply Chain Management” was developed based on the Higher Education Standard of the second (master’s) level in the subject area 073 Management, field of study 07 Management and Administration, approved and enacted by the order of the Ministry of Education and Science of Ukraine dated July 10, 2019, № 959, by the project group of Department of Management, Public Administration, and HR-technologies of Ukrainian State University of Railway Transport, consisting of

- DYKAN Olena – professor of Department of Management, Public Administration, and HR-technologies, Doctor of Economics – project group leader, (program lead)
- SEMENTSOVA Olena – associate professor of Department of Management, Public Administration, and HR-technologies, PhD in Economics
- KRYKHTINA Yuliya – professor of Department of Management, Public Administration, and HR-technologies, Doctor of Public Administration
- ROMANOVYCH Yevhenia - head of educational department of Ukrainian State University of Railway Transport, Master of Public Management and Administration
- Salman Ahmad - lecturer at the University of the West of Scotland, PhD, MSc, BSc, CMBE
- Dr. Mehran Ullah - Lecturer of Logistics and Supply Chain at the University of the West of Scotland, PhD in Industrial Management
- Ibiyemi Omeihe - Programme Leader of MSc Logistics and Supply Chain Management at the University of the West of Scotland, PhD, MBA BA (Hons), FHEA, PgCert, CMBE
- Olamide Olusegun - Lecturer in Supply Chain at the University of the West of Scotland, MSc ,BSc , CILT

with the involvement and consideration of the opinions and needs of the following stakeholders:

- OSHMARIN Serhii the deputy head of the structural subdivision “Service for Organization and Conducting of Procurement” of the regional branch “Southern Railway” of JSC “Ukrzaliznytsia”
- TROFIMOM Oleksandr the owner of the logistics company Trofimovlogistic
- MISHCHUK Ihor a first-year student (second (master’s) level) of the educational program “Organization Management and Administration” subject area 073 “Management”

2) approved at the meeting:

Department of Management, Public Administration, and HR-technologies dated April, 22 2024 (minutes № 8);

methodical committee of Faculty of Economics dated April, 26 2024 (minutes № 8);  
Academic Council of Faculty of Economics dated May, 24 2024 (minutes № 9);

3) approved at the meeting of Academic Council of Ukrainian State University of Railway Transport dated June, 28 2024 (minutes №6 ).

## 1. Profile of the Educational Program “Sustainable Logistics and Supply Chain Management” in Subject Area 073 “Management”

<b>1. General Information</b>	
<b>Full Name of the Higher Education Institution and Structural Subdivision</b>	Ukrainian State University of Railway Transport Department of Management, Public Administration and HR-technologies
<b>Degree of Higher Education and Qualification Name in the Original Language</b>	Degree – Master Qualification – Master of Management
<b>Official name of the educational program</b>	Sustainable Logistics and Supply Chain Management
<b>Qualification as stated in the diploma</b>	Level of higher education – Master Subject Area – 073 Management Educational program – Sustainable Logistics and Supply Chain Management
<b>Type of diploma and scope of the educational program</b>	Master’s degree, dual, 90 ECTS credits, duration of study 1 year and 4 months
<b>Accreditation status</b>	The program will undergo accreditation for the first time
<b>Cycle / level</b>	NFQ of Ukraine – Level 7 FQ-EHEA – second cycle EQF-LLL – Level 7
<b>Prerequisites</b>	An individual is eligible to obtain a master’s degree if they hold qualifications in specialist, first (bachelor’s), and second (master’s) levels of higher education. Additionally, candidates must demonstrate proficiency in English at a level not lower than B2, confirmed by an appropriate certificate
<b>Language(s) of instruction</b>	English
<b>Duration of the educational program</b>	July, 1 2028
<b>Permanent web address for the description of the educational program</b>	<a href="https://kart.edu.ua/department/kafedra-mia/osvitni-programi/opp-stala-logistika-ta-upravlinnja-lancjugami-postachannja">https://kart.edu.ua/department/kafedra-mia/osvitni-programi/opp-stala-logistika-ta-upravlinnja-lancjugami-postachannja</a>
<b>2. Aim of the educational program</b>	

<p>Preparation of highly qualified professionals in the field of logistics and supply chain management, who possess modern analytical thinking, theoretical knowledge, and applied skills in making strategic decisions, utilizing contemporary technologies in sustainable logistics, implementing innovative approaches to enhance supply chain management efficiency, capable of addressing research and managerial challenges in the operation of logistics systems across various levels in complex, unstable, and uncertain external environments</p>	
<b>3. Description of the educational program</b>	
<b>Subject area (field of study, specialty, specialization (if applicable))</b>	<p><b>Object of training:</b> management of organizations and their units; management of logistics systems and supply chains considering sustainable development and modern technologies</p> <p><b>Educational goals:</b> preparation of professionals capable of identifying and solving complex issues in management, including designing, managing, and improving logistics systems and supply chains involving research and/or innovation under conditions of uncertainty</p> <p><b>Theoretical content of the subject area:</b></p> <ul style="list-style-type: none"> <li>- paradigms, laws, and regularities of logistics systems and supply chain development;</li> <li>- principles and historical prerequisites of management development;</li> <li>- concepts of systemic, situational, adaptive, anticipatory, crisis management, innovation, and project management, logistics management, etc.;</li> <li>- functions, methods, technologies, and managerial decisions in management, particularly in logistics and supply chain management.</li> </ul> <p><b>Methods, methodologies, and technologies:</b></p> <ul style="list-style-type: none"> <li>- general scientific and specific research methods in logistics (calculative-analytical, economic-statistical, economic-mathematical, expert evaluation, factual, documentary, balance, etc.);</li> <li>- methods for implementing management functions in supply chains (marketing research methods, economic diagnostics methods, forecasting and planning methods, methods for designing organizational management structures, motivation methods, control methods, methods for evaluating social, organizational, and economic efficiency in management, etc.);</li> <li>- management methods in logistics systems (administrative, economic, socio-psychological, technological);</li> <li>- technologies for substantiating management decisions (economic analysis, simulation modeling, decision trees, etc.)</li> </ul> <p><b>Tools and equipment:</b> modern information and communication equipment, information systems, and software used in management and logistics.</p>
<b>Orientation of the educational program</b>	<p>Educational-professional. Applied orientation.</p> <p>The professional focus of the educational program includes a deep study of strategic and operational management of logistics systems, optimization of supply chains, and application of modern methods and technologies in logistics. It aims to prepare highly skilled professionals capable of addressing complex challenges in management and administration, which prepares graduates for employment in logistics companies and develops abilities to establish their own logistics organizations. The program's professional orientation is ensured through a combination of compulsory</p>

	educational components that cultivate both general and specialized professional competencies relevant to the specialty's subject area
<b>Main focus of the educational program and specialization</b>	<p>Specialized education in the field of Management and Administration under the subject area 073 Management, with the educational program "Sustainable Logistics and Supply Chain Management".</p> <p>The educational program emphasizes a comprehensive understanding of concepts, principles, and practices of sustainable logistics and supply chain management.</p> <p>Key words: management, logistics, manager, logistician, logistics management, supply chain management, logistics systems, logistic infrastructure, sustainable logistics</p>
<b>Program features</b>	The program is designed within the framework of collaboration with the University of the West of Scotland (UWS) as part of the Twinning program for dual degrees. The program involves studying disciplines in English and synchronization with modern educational components of leading higher education institutions in Europe, which opens opportunities for academic mobility
<b>4. Employability of graduates and further education suitability</b>	
<b>Employability</b>	Graduates of the Master's program in "Sustainable Logistics and Supply Chain Management" can be employed in enterprises and organizations of various legal forms, eligible to hold primary positions according to the Ukrainian Classification of Occupations DK 003-2010: 1210.1 Managers of enterprises, institutions, and organizations, 1229 Managers of other main departments, 1221.2 Logistics department manager, dispatcher service chief, 1226.2 Warehouse manager, transport service chief, warehouse manager, 1235 Head of material and technical supply department, 1475.3 Logistics manager, 1475.4 Supply manager.
<b>Further studying</b>	The possibility of studying at the third (research) level of higher education – Doctor of Philosophy. Acquisition of additional qualifications in the postgraduate education system.
<b>5. Teaching and Assessment</b>	
<b>Teaching and learning</b>	Student-centred learning, self-learning, elements of distance education, and interactive teaching methods are practiced when teaching. Attention is given to transforming the educational environment aimed at enhancing students' autonomy and critical thinking. This involves adopting new approaches to curriculum development, teaching, and learning. At UkrSURT, distance learning technologies on the Moodle platform are utilized for students' independent work.
<b>Assessment</b>	The main types of assessment are: ongoing assessment; module assessment; summative assessment (semester control, final certification). Ongoing assessment includes the evaluation of students' knowledge, skills, and abilities during lectures, seminars, and practical classes through oral and written questioning, tests, essays, presentations, and research reports. Module assessment is conducted twice a semester in the form of computer-based testing. Summative assessment is carried out in the form of exams,

	<p>pass/fail assessments, and the public defense of the qualification work. The tool for assessment is the rating system for evaluating students' academic performance. The purpose of the rating system is to comprehensively assess the quality of students' educational activities during their mastery of the educational program. Students' rating in a particular discipline is measured on a 100-point scale, which is then converted to grades according to the national scale and the ECTS scale. The basis of the rating system for assessing students' performance is ongoing assessment and module assessment, which serve as a system for accumulating rating points throughout training period.</p>
<b>6. Program competencies</b>	
<b>Integral competency</b>	Ability to solve complex tasks and problems in the field of management, particularly in logistics and supply chain management, or in the learning process, involving research and/or innovation under conditions of uncertainty and changeable requirements
<b>General competencies (GC)</b>	<p>GC1. Ability to conduct research at the appropriate level;</p> <p>GC2. Ability to communicate with representatives of other professional groups at different levels (with experts from other fields of study/types of economic activity);</p> <p>GC3. Skills in using information and communication technologies;</p> <p>GC4. Ability to motivate people and move towards a common goal;</p> <p>GC5. Ability to act based on ethical considerations (motives);</p> <p>GC6. Ability to generate new ideas (creativity);</p> <p>GC7. Ability for abstract thinking, analysis, and synthesis.</p>
<b>Professional competencies of the specialty (PC)</b>	<p>PC1. Ability to select and use management concepts, methods, and tools in accordance with defined goals and international standards;</p> <p>PC2. Ability to establish values, vision, mission, goals, and criteria by which the organization determines further development directions, and to develop and implement corresponding strategies and plans;</p> <p>PC3. Ability for self-development, lifelong learning, and effective self-management;</p> <p>PC4. Ability to effectively use and develop organizational resources;</p> <p>PC5. Ability to create and organize effective communications in the management process;</p> <p>PC6. Ability to develop leadership qualities and demonstrate them when managing people;</p> <p>PC7. Ability to develop projects, manage them, and demonstrate initiative and entrepreneurship;</p> <p>PC8. Ability to use psychological techniques when working with personnel;</p> <p>PC9. Ability to analyze and structure organizational problems, make effective management decisions, and ensure their implementation;</p> <p>PC10. Ability to manage the organization and its development;</p> <p>PC11. Ability to identify and solve complex problems in logistics activities, and to tackle challenging tasks related to sustainable logistics and supply chain management;</p> <p>PC12. Ability to prevent inefficient use of the logistic system's resource potential and find ways to improve the efficiency of business processes</p>

	<p>under risk conditions and in compliance with supply chain safety standards;</p> <p>PC13. Ability to apply methods of designing and optimizing supply chains when managing a project for the development and implementation of a logistics system;</p> <p>PC14. Ability to understand the principles of building international logistics systems, and to develop skills in identifying and analyzing the complexity and uncertainty of the global supply chain in a strategic context.</p>
<b>7. Program Learning Outcomes</b>	
<ol style="list-style-type: none"> <li>1. Critically reflect on, select, and use the necessary scientific, methodological, and analytical tools for management in unpredictable conditions;</li> <li>2. Identify problems in the organization and justify methods for solving them;</li> <li>3. Design effective management systems for organizations;</li> <li>4. Justify and manage projects, generate entrepreneurial ideas;</li> <li>5. Plan organizational activities in both strategic and tactical dimensions;</li> <li>6. Have the skills to make, justify, and ensure the implementation of managerial decisions in unpredictable conditions, considering current legislation, ethical considerations, and social responsibility;</li> <li>7. Organize and implement effective communications within the team, with representatives of different professional groups, and in an international context;</li> <li>8. Apply specialized software and information systems to solve organizational management tasks;</li> <li>9. Be able to communicate professionally and academically in both the national and foreign languages;</li> <li>10. Demonstrate leadership skills and the ability to work in a team, interact with people, and influence their behaviour to solve professional tasks;</li> <li>11. Ensure personal professional development and time management;</li> <li>12. Be able to delegate authority and the organization (subdivision) management;</li> <li>13. Be able to plan and implement informational, methodological, material, financial, and personnel support for the organization (subdivision);</li> <li>14. Demonstrate critical awareness of technological, business, and organizational issues related to the creation and management of the supply chain in the context of sustainable logistics;</li> <li>15. Be able to formulate and implement logistics missions, strategies, goals, tasks, decisions, and perform comprehensive management activities in supply chains; determine ways to save total costs of material, financial, and labour resources throughout the entire logistics chain and evaluate its efficiency;</li> <li>16. Demonstrate skills in designing, organizing, and monitoring the logistics activities of organizations, channels, and supply chains;</li> <li>17. Be able to identify patterns, conditions, and factors of national and global economic processes that determine the formation of effective logistics strategies for the development of supply chains.</li> </ol>	
<b>8. Resource support for the implementation of the program</b>	
<b>Human resources provision</b>	<p>The academic staff involved in the educational and professional program have academic degrees and titles, as well as the necessary experience in research and pedagogical activities.</p> <p>The educational and/or professional qualifications of the academic staff involved in teaching the educational components of the educational program comply with the Licensing Conditions for the provision of educational activities, approved by the Resolution of the Cabinet of</p>



	<p>Ministers of Ukraine dated 30.12.2015 № 1187 (as amended by the Resolution of the Cabinet of Ministers of Ukraine dated 24.03.2021 № 365).</p> <p>According to the conditions of training masters under the dual degree program, academic staff from the University of the West of Scotland (UWS) are involved in teaching professionally-oriented disciplines</p>
<b>Material and technical resources</b>	<p>Comply with the licensing conditions for providing educational activities, including: multimedia classrooms; computer labs; technical and software support for distance learning technologies; library, including a reading room; gym; cafeteria; dormitories.</p> <p>In the conditions of martial law, to overcome the consequences of blackouts, the university has installed generators, powerful charging stations to meet energy needs, and portable mobile power banks. The university also has a bomb shelter for protection against shelling.</p>
<b>Informational and educational-methodical support</b>	<p>The official website <a href="https://kart.edu.ua/pro-universitet">https://kart.edu.ua/pro-universitet</a> contains relevant information about educational programs, academic, research, and educational activities, structural units, admission rules, contacts, etc.</p> <p>All resources of the scientific and technical library are available through the university website: <a href="http://lib.kart.edu.ua/home.jsp?locale=uk">http://lib.kart.edu.ua/home.jsp?locale=uk</a>.</p> <p>Additionally, the educational and methodological materials of the educational and professional program are posted on the department's website: <a href="https://kart.edu.ua/department/kafedra-mia">https://kart.edu.ua/department/kafedra-mia</a></p> <p>To support the educational process, virtual educational and methodological complexes are used, which are available to students in a unified information space of electronic resources – the Moodle learning platform. For distance learning in online mode, the functionality of the Zoom video conferencing platform is used.</p>
<b>9. Academic mobility</b>	
<b>National credit mobility</b>	<p>The possibility of entering into agreements for academic mobility is provided for under current Ukrainian legislation. This includes the ability to conclude agreements for academic exchange programs with other higher education institutions and partners</p>
<b>International credit mobility</b>	<p>As part of the educational program implementation, the attainment of dual degrees is envisaged, which allows graduates to acquire educational competencies not only from Ukrainian State University of Railway Transport (UkrSURT) but also from the University of the West of Scotland (UWS). Upon successful completion of their studies, graduates will be awarded degrees from both universities.</p>
<b>Training of foreigners</b>	<p>Training of foreign students can be conducted in accordance with the requirements of current legislation.</p>

## 2. The list of components of the educational-professional / scientific program and their logical sequence

### 2.1. The list of the educational program components

№	Educational component	ECTS credits	Semester	Summative Assessment
	<b>1. Cycle of general training</b>			
CC1	Methodology and Organization of Scientific Research	3,0	1	pass/fail credit
CC2	Communications, HR-Management, and Management Psychology	6,0	2	exam
	Compulsory educational components total	<b>9,0</b>		
	<b>Elective courses for general training</b>			
EC1	Discipline 1**	3,0	*	*
EC2	Discipline 2**	3,0	*	*
	<b>Elective courses total</b>	<b>6,0</b>		
	<b>Cycle of general training total</b>	<b>15,0</b>		
	<b>2. Cycle of professional training</b>			
CC3	Sustainable Logistics and Organizational Resource Management	6,0	1	exam
CC4	Theory and Practice of Supply Chain Management	19,0	1	exam
CC5	Coursework in Theory and Practice of Supply Chain Management	1,0	1	defense
CC6	Logistics Management and Supply Chain Design	6,0	2	exam
CC7	Coursework in Logistics Management and Supply Chain Design	1,0	2	defence
CC8	International Logistics Systems	6,0	1	pass/fail credit
CC9	Pregraduation Practicum	4,0	3	pass/fail credit
CC10	Preparation and Defence of Qualification Work	14,0	3	defence
	Compulsory educational components total	<b>57,0</b>		
	<b>Elective courses for professional training</b>			
EC3	Discipline 3**	6,0	*	*
EC4	Discipline 4**	6,0	*	*
EC5	Discipline 5**	6,0	*	*
	Elective courses total	<b>18,0</b>		
	<b>Cycle of professional training total</b>	<b>75,0</b>		
	<b>Educational-professional program total</b>	<b>90,0</b>		

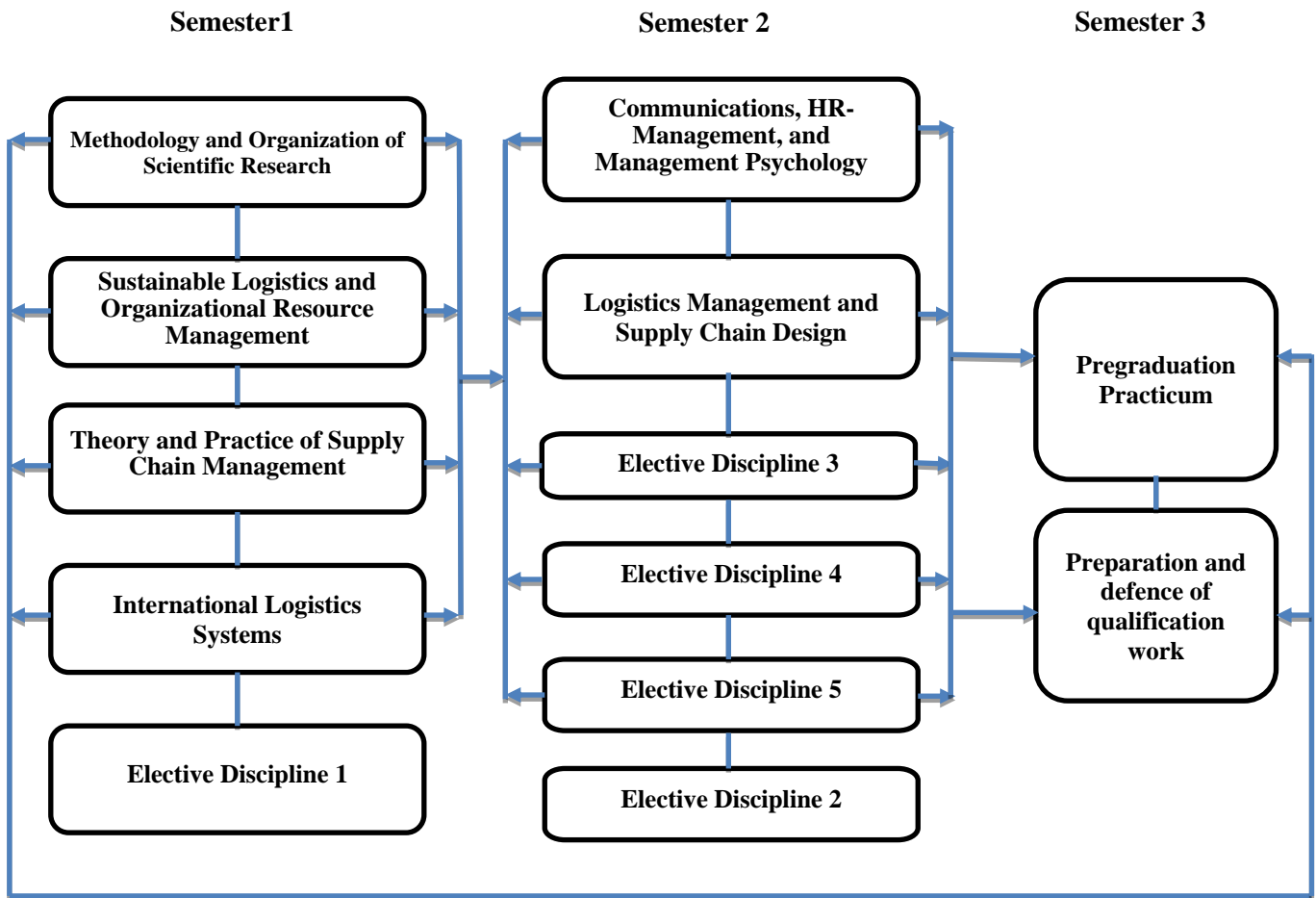
\*- the form of summative assessment is determined by the curriculum

\*\* - the educational component is determined by the results of students' choices according to the established procedure.

*The following courses are offered for selection withing the cycle of general training: Transport and Forwarding Activity, Management of the Railway Transportation System, Innovative Transportation Technologies, Intellectual Business, Intellectual Property and Contract Law, Claims and Complaints Work*

*The following courses are offered for selection withing the cycle of professional training: Optimization of Logistics Solutions, Business Analytics in Logistics, Business Process Management in Logistics, Financial Flows in Logistics Systems, Humanitarian Logistics, Corporate Logistics, Transport Logistics, Logistics under the Conditions of Full-Scale Military Operations, Operational Logistics Management in Supply Chains, Supply Chain Modeling, Modern Challenges in Supply Chain Management, Global Supply Chain Management.*

## 2.2. Structural-logical scheme of the educational program



## 3. Form of Students' Certification

Forms of students' certification	The attestation is carried out in the form of a public defence of the qualification work.
Requirements for the Qualification Work	<p>The qualification work should involve solving a complex task or problem in the field of management, particularly logistics, and supply chain management. This task or problem requires research and/or innovation, is characterized by complexity and uncertainty of conditions, and involves the application of economic theories and methods, as well as logistics concepts, technologies, and techniques.</p> <p>The qualification work must not contain academic plagiarism, falsification, or fabrication. It must be published on the official website of the higher education institution or its subdivision, or in the institution's repository.</p>

The final attestation of graduates is conducted by the Examination Commission. A prerequisite for a student to be admitted to the defence of the qualification work is the full completion of the curriculum. The attestation concludes with the issuance of a standard document awarding the student a master's degree with the educational qualification of Master of Management in the educational program "Sustainable Logistics and Supply Chain Management".



## Requirements for the Internal Quality Assurance System in Higher Education

Ukrainian State University of Railway Transport has a quality assurance system for educational activities and higher education (internal quality assurance system). This system includes the following procedures and measures:

1. Defining principles and procedures for quality assurance in higher education.
2. Conducting monitoring and periodic review of educational programs.
3. Annual evaluation of students and academic and pedagogical staff, with regular publication of the results on the official website of the higher education institution, on information boards, and in any other manner.
4. Ensuring the professional development of pedagogical and academic staff.
5. Providing the necessary resources for organizing the educational process, including students' independent work, for each educational program.
6. Ensuring the availability of information systems for effective management of the educational process.
7. Ensuring the public availability of information about educational programs, degrees, and qualifications.
8. Implementing an effective system to prevent and detect academic plagiarism in staff's and students' works.

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